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› TP-Link AC2600 WiFi Extender (RE650) User Manual

TP-Link RE650

TP-Link AC2600 WiFi Extender User Manual

MODEL: RE650

1. Product Overview

The TP-Link AC2600 WiFi Extender (RE650) is designed to expand your existing Wi-Fi coverage, eliminating dead zones and providing strong, reliable wireless connectivity throughout your home or office. It supports dual-band Wi-Fi (2.4GHz and 5GHz) with speeds up to 2600Mbps, leveraging 4x4 MU-MIMO technology for efficient communication with multiple devices simultaneously. The RE650 also features a Gigabit Ethernet port for high-speed wired connections.





Image: The TP-Link RE650 WiFi Extender, showing its compact design and indicator lights, plugged into a standard wall outlet.

2. Setup Guide

2.1 What's in the Box

- AC2600 Wi-Fi Range Extender RE650
- Quick Installation Guide

2.2 Optimal Placement

For best performance, place the RE650 between your router and the area where you need improved Wi-Fi coverage. The intelligent signal indicator lights on the extender will help you find the ideal location, indicating the signal strength received from your router. A blue light typically indicates a good connection.

2.3 Connection Steps

There are two primary methods to set up your RE650 extender:

1. Using the WPS Button (Recommended):

- Plug the RE650 into an electrical outlet near your router.
- Press the WPS button on your router.
- Within two minutes, press the WPS button on the RE650.
- Wait for the Signal LED on the extender to turn solid blue, indicating a successful connection.

2. Using the TP-Link Tether App:

- Download the TP-Link Tether app from the App Store or Google Play.
- Plug the RE650 into an electrical outlet.
- Connect your mobile device to the RE650's Wi-Fi network (e.g., 'TP-Link_Extender').
- Open the Tether app and follow the on-screen instructions to complete the setup. This method allows for more detailed configuration, including setting up a separate network name for the extended Wi-Fi if desired.

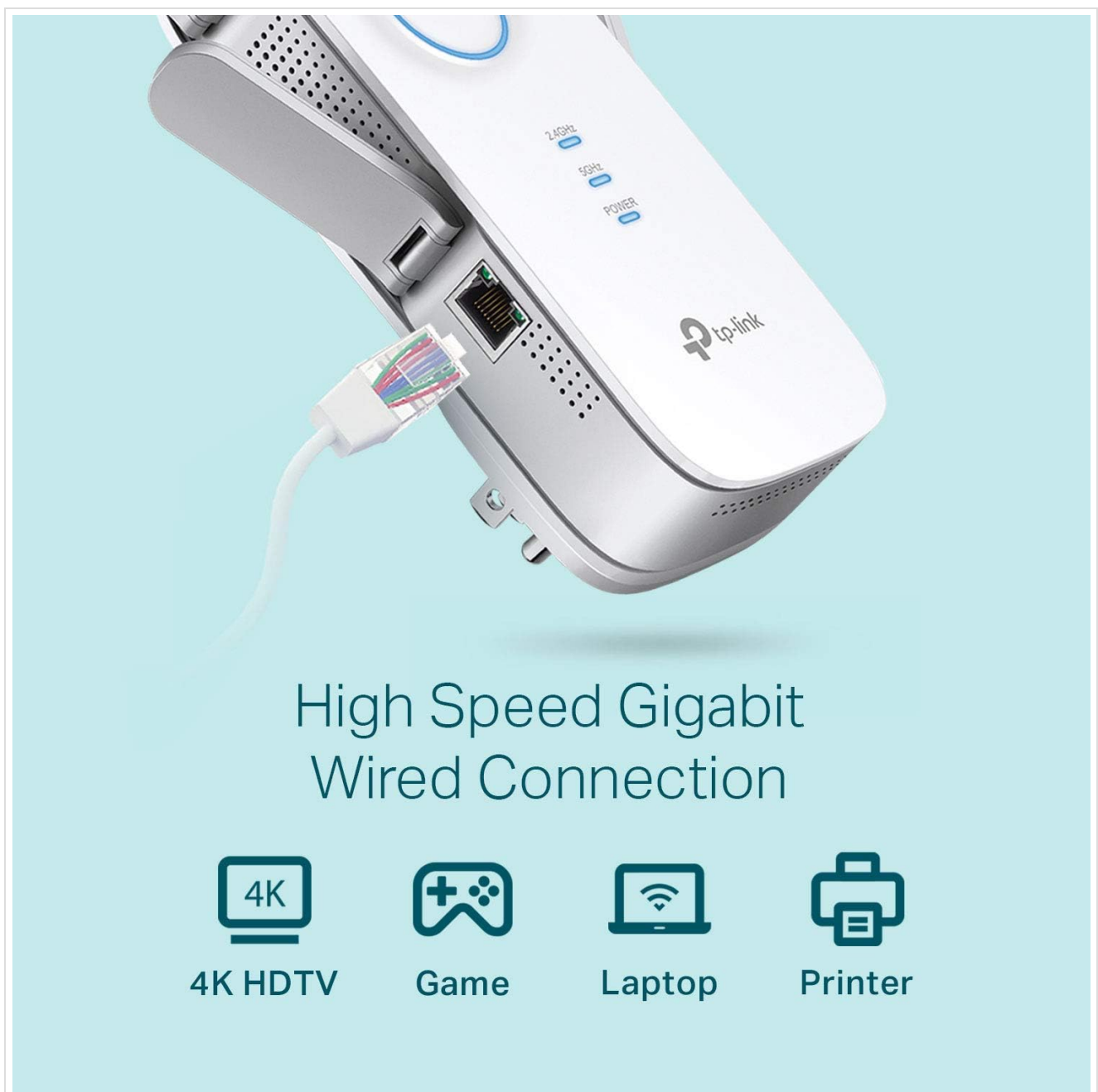


Image: A hand holding a smartphone displaying the TP-Link Tether app interface, with the RE650 extender in the background, illustrating the easy setup process.

3. Operating Your Extender

3.1 Dual-Band Wi-Fi Extension

The RE650 extends both 2.4GHz and 5GHz Wi-Fi bands simultaneously, providing flexible connectivity options for all your devices. The 2.4GHz band offers wider coverage, while the 5GHz band provides faster speeds, ideal for streaming 4K video and online gaming.



Image: Diagram illustrating the 4-Stream AC2600 Dual-Band WiFi capabilities, showing 1733 Mbps on the 5GHz band and 800 Mbps on the 2.4GHz band, with users enjoying various online activities.

3.2 MU-MIMO Technology

With MU-MIMO (Multi-User, Multiple-Input, Multiple-Output) technology, the RE650 can communicate with multiple devices at once, significantly improving network efficiency and reducing wait times. This results in faster connections and a smoother experience for all connected devices.

MU-MIMO Technology

More Connections, Faster WiFi



Traditional RE



MU-MIMO RE650

Image: A visual comparison between traditional range extenders and the RE650 with MU-MIMO technology, demonstrating how MU-MIMO allows the extender to serve multiple devices simultaneously for faster connections.

3.3 Gigabit Ethernet Port

The RE650 includes a Gigabit Ethernet port, allowing you to connect a wired device such as a smart TV, gaming console, or PC directly to the extender for a fast and stable connection. This is particularly useful for bandwidth-intensive activities.

Easy Setup

Just plug in the RE650 Range Extender and follow the Tether app's on-screen instructions.



Image: The Gigabit Ethernet port on the RE650, with an Ethernet cable connected, highlighting its use for high-speed wired connections to devices like 4K HDTVs, game consoles, laptops, and printers.

4. Care and Maintenance

- **Keep Clean:** Regularly wipe the device with a soft, dry cloth. Avoid using liquid cleaners or aerosols.
- **Ventilation:** Ensure the extender is placed in a well-ventilated area to prevent overheating. Do not block the ventilation openings.
- **Environment:** Avoid placing the device in direct sunlight, near heat sources, or in extremely humid or dusty environments.
- **Power Off When Not in Use:** If you plan not to use the extender for an extended period, unplug it from the power outlet.

5. Troubleshooting Common Issues

5.1 No Internet Access After Setup

- **Check Router Connection:** Ensure your main router is working correctly and has internet access.
- **Extender Placement:** Relocate the extender closer to your router to ensure it receives a strong signal. The signal indicator lights on the RE650 should be solid blue.
- **Reboot Devices:** Try rebooting both your router and the RE650 extender.

5.2 Slow Speeds or Frequent Disconnections

- **Interference:** Move the extender away from devices that emit strong electromagnetic interference (e.g., microwaves, cordless phones).
- **Channel Congestion:** If using the Tether app or web interface, try changing the Wi-Fi channel on your router or extender to a less congested one.
- **Firmware Update:** Check the TP-Link website for any available firmware updates for your RE650. Updating firmware can resolve performance issues.

5.3 Unable to Connect to the Extended Network

- **Correct Password:** Ensure you are entering the correct Wi-Fi password for the extended network. By default, it's the same as your main router's password unless you changed it during setup.
- **Reset Extender:** If issues persist, you may need to perform a factory reset on the RE650 and set it up again. Refer to the Quick Installation Guide for reset instructions.

For more detailed troubleshooting, please refer to the official [User Manual \(PDF\)](#) or [User Guide \(PDF\)](#) available online.

6. Technical Specifications

Feature	Specification
Model Number	RE650
Wireless Communication Standard	802.11n, 802.11ac
Data Transfer Rate	2600 Megabits Per Second
Frequency Band Class	Dual-Band (2.4GHz & 5GHz)
Ethernet Port	1 x 10/100/1000M Ethernet Port (RJ45)
Product Dimensions	3.4 x 6.4 x 1.6 inches
Item Weight	1 pounds
On-mode Power Consumption	12 watts

7. Warranty and Support

TP-Link products come with a limited warranty. For specific warranty terms and conditions applicable to your region, please refer to the warranty card included with your product or visit the official TP-Link website.

For technical support, product registration, and additional resources, please visit the official TP-Link support page or contact their customer service. You can find more information and support at the [TP-Link Store on Amazon](#) or their main website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question